

Remarks

Applicants respectfully request that this Amendment After Final Action be admitted under 37 C.F.R. § 1.116.

Applicants submit that this Amendment presents claims in better form for consideration on appeal. Furthermore, applicants believe that consideration of this Amendment could lead to favorable action that would remove one or more issues for appeal.

Claims 1, 4, 11, 12 and 24 have been amended. No claims have been canceled. Therefore, claims 1-26 are now presented for examination.

Claims 1, 4, 7, and 24 stand rejected under 35 U.S.C. §102(a) as being anticipated by Sezan et al. (U.S. Patent No. 6,236,395). Applicants submit that the present claims are patentable over Sezan.

Sezan discloses a program description scheme related to the video, still image, and/or audio information that includes two sets of information, program views and program profiles. The program views define logical structures of the frames of a video that define how the video frames are potentially to be viewed suitable for efficient browsing. For example the program views may contain a set of fields that contain data for the identification of key frames, segment definitions between shots, highlight definitions, video summary definitions, different lengths of highlights, thumbnail set of frames, individual shots or scenes, representative frame of the video, grouping of different events, and a close-up view. The program view descriptions may contain thumbnail, slide, key frame, highlights, and close-up views so that users can filter and search not only at the program level but also within a particular program. The description scheme also enables users to access information in varying detail amounts by supporting, for example, a key frame view

as a part of a program view providing multiple levels of summary ranging from coarse to fine.

The program profiles define distinctive characteristics of the content of the program, such as actors, stars, rating, director, release date, time stamps, keyword identification, trigger profile, still profile, event profile, character profile, object profile, color profile, texture profile, shape profile, motion profile, and categories. The program profiles are suitable to facilitate filtering and searching of the audio and video information. The description scheme enables users to have the provision of discovering interesting programs that they may be unaware of by providing a user description scheme. The user description scheme provides information to a software agent that in turn performs a search and filtering on behalf of the user by possibly using the system description scheme and the program description scheme information. See Sezan at col. 4, ll. 40 – col. 5, ll. 9.

Claim 1 of the present application recites:

A method, comprising:
examining an MPEG stream;
identifying packets in the MPEG stream that are
associated with navigation points in a playback of
the MPEG stream; and
storing a first component of information on the
identified packets in an Extensible Markup
Language (XML) file; and
storing a second component of information on the
identified packets in a binary file.

Applicants submit that nowhere in Sezan is there disclosed a process of identifying packets in an MPEG stream associated with navigation points, storing a first component of information of the identified packets in an XML file and storing a second component of information of the identified packets in a binary file. Instead, Sezan discloses program descriptions that include program views and program profiles. Program views and profiles are not equivalent to the features recited in claim 1. Thus, claim 1 is patentable over Sezan.

Claims 2-6 depend from claim 1 and include additional features. Therefore, claims 2-6 are also patentable over Sezan.

Claim 7 recites:

A method, comprising:
retrieving a first component of information on specified packets in an MPEG stream from an Extensible Markup Language (XML) navigation file that is separate from the MPEG stream;
retrieving a second component of information from a binary navigation file that is separate from the MPEG stream; and
using the retrieved information to navigate the MPEG stream.

For the reasons described above with respect to claim 1, claim 7 is also patentable over Sezan. Since claims 8-11 depend from claim 7 and include additional features, claims 8-11 are also patentable over Sezan.

Claim 12 recites:

A machine-readable medium having stored thereon instructions, which when executed by at least one processor cause said at least one processor to perform operations comprising:
examining an MPEG stream;
identifying packets in the MPEG stream that are associated with navigation points in a playback of the MPEG stream;
storing a first component of information ~~on~~ of the identified packets in an Extensible Markup Language (XML) file; and
storing a second component of information ~~on~~ of the identified packets in a binary file.

Thus, for the reasons described above with respect to claim 1, claim 12 is also patentable over Sezan. Because claims 13-17 depend from claim 12 and include additional features, claims 13-17 are also patentable over Sezan.

Claim 18 recites:

An apparatus, comprising:
a medium to provide an MPEG stream; and
an authoring tool coupled to the medium to examine the MPEG stream and to produce a first component of navigation information stored in an Extensible Markup Language (XML) navigation file and a second component of information stored in a binary navigation file separate from the MPEG stream.

Therefore, for the reasons described above with respect to claim 1, claim 18 is also patentable over Sezan. Because claims 19-23 depend from claim 18 and include additional features, claims 19-23 are also patentable over Sezan.

Claim 24 recites:

A system, comprising:
a encoder to encode digitized video and audio data into packets in an MPEG stream;
a navigation generator coupled to the encoder to:
examine the MPEG stream;
generate navigation information on packets associated with specific presentation points in the MPEG stream; and
store a first component of the navigation information in a an Extensible Markup Language (XML) navigation file and a second component of information stored in a binary navigation file separate from a file to store the MPEG stream; and
a decoder to read and decode portions of the MPEG stream identified by the navigation information.

Thus, for the reasons described above with respect to claim 1, claim 24 is also patentable over Sezan. Since claims 25 and 26 depend from claim 24 and include additional features, claims 25 and 26 are also patentable over Sezan.

Claims 3, 5, 6, 8-11, 12-20, 22, 23, 25 and 26 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Sezan et al. (U.S. Patent No. 6,236,395) in view of Tsumagari et al. (U.S. Patent No. 6,480,669). Applicants submit that the present claims are patentable over Sezan even in view of Tsumagari.

Tsumagari discloses an apparatus/method to allow a user to write or erase a mark (entry point) at an arbitrary recording position of video data, audio data, and the like as if he or she placed a bookmark between pages or at an important position while reading a book. A digital video information medium is included that has a volume space including a management area and data area. The data area stores data segmented into one or more objects (RTR_MOV.VRO/VR_MOVIE.VRO, RTR_STO.VRO/VR_STILL.VRO, RTR_STA.VRO/VR_AUDIO.VRO). Each object is comprised of one or more data units (one or more VOBUs form a cell, and one or more cells form video object). Each data unit (VOBU) stores one or more packs (video or audio packs) of video or audio data to be played back within a predetermined time (0.4 to 1.2 sec). The management area stores management information (RTR_VMG) used to manage the objects. The management information (RTR_VMG) has program chain information (ORG_PGCI or UD_PGCIT) for designating the playback order of objects.

Further, a digital video information recording/playback apparatus records or plays back the contents of the objects (RTR_MOV.VRO/VR_MOVIE.VRO) using a recordable/reproducible medium which has movie cell information (M_CI) in management information (RTR_VMG) for managing objects (RTR.sub.13 MOV.VRO/VR_MOVIE.VRO) as recorded information. The digital video information recording/playback apparatus comprises an entry point setting unit (MPU) for setting a required entry point (M_C_EPI#1 to M_C_EPI#n) in the movie cell information (M_CI); an additional information input unit (MPU) for inputting additional information (information type, information date, text information, and the like in PRM_TXTI) with respect to the entry point (M_C_EPI); and an additional information setting unit (MPU) for setting the

additional information in the entry point (M_C_EPI). In addition, a digital video information processing method records or plays back the contents of the objects (RTR_MOV.VRO/VR_MOVIE.VRO) using a recordable/reproducible medium which has movie cell information (M_CI) in management information (RTR_VMG) for managing objects (RTR_MOV.VRO/VR_MOVIE.VRO) as recorded information. Using the entry point as needed, the user can easily recognize the recorded contents of a disc. Also, using the entry point information, the user can record/play back from a desired position. See Tsumagari at col. 1, ll. 59 – col. 2, ll. 66.

However, Tsumagari does not disclose or suggest identifying packets in an MPEG stream associated with navigation points, storing a first component of information on the identified packets in an Extensible Markup Language (XML) file and storing a second component of information on the identified packets in a binary file. As discussed above, Sezan does not disclose or suggest such features. Therefore, any combination of Sezan and Tsumagari would also not disclose or suggest the features. As a result, the present claims are patentable over Sezan in view of Tsumagari.

Claim 21 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Sezan et al. in view of Tsumagari et al. in further view of Taniguchi et al. (U.S. Patent No. 6,192,183). Applicants submit that the present claims are patentable over Sezan in view of Tsumagari and Taniguchi.

Taniguchi discloses a video editing scheme for enabling a video editing operation on the coded video data efficiently. In a system in which the coded video data are decoded and displayed on a video display device, events including scene changes are detected from the coded video data, and icons are produced from the coded video data in correspondence to

the detected events. On the other hand, playback possible positions from which the coded video data can be played back smoothly are determined, and index information including information on the produced icons and the determined playback possible positions is managed. Then, a plurality of icons is displayed on a single display, and a user is allowed to specify a desired icon among the displayed icons on the single display. Then, one playback possible position corresponding to the desired icon specified by the user is obtained according to the managed index information, and the coded video data are supplied to the video display device starting from the obtained playback possible position. See Taniguchi at Abstract.

However, Taniguchi does not disclose or suggest identifying packets in an MPEG stream associated with navigation points, storing or retrieving a first component of information on the identified packets in an Extensible Markup Language (XML) file and storing a second component of information on the identified packets in a binary file. As discussed above, Sezan and Tsumagari both fail to disclose or suggest such features. Therefore, any combination of Sezan, Tsumagari and Taniguchi would also not disclose or suggest the features. As a result, the present claims are patentable over Sezan in view of Tsumagari and Taniguchi.

Applicants respectfully submit that the rejections have been overcome and that the claims are in condition for allowance. Accordingly, applicants respectfully request the rejections be withdrawn and the claims be allowed.

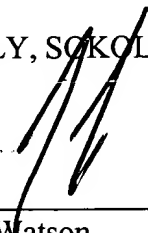
The Examiner is requested to call the undersigned at (303) 740-1980 if there remains any issue with allowance of the case.

Please charge any shortage to our Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

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Mark L. Watson
Reg. No. 46,322

12400 Wilshire Boulevard
7th Floor
Los Angeles, California 90025-1026
(303) 740-1980